Ontario

Ministry of Natural Resources

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

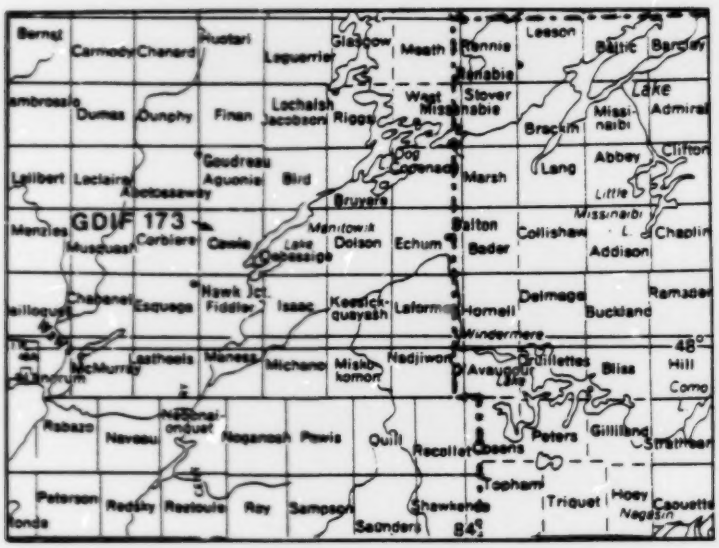
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 173

COWIE TOWNSHIP

DISTRICT OF ALGOMA

Compiled by the staff of
the Resident Geologist's Office
Sault Ste. Marie



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

85-1190/

NTS Number 42 C/1, 42 C/2

Mining Claim Map Number M. 1525

This project was funded by the Ontario Ministry of Northern Affairs through the Northern Ontario Geological Survey (NOGS) Program.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1984: Cowie Township, District of Algoma; Ontario Geological Survey, Geological Data Inventory Folio 173, Compiled by the staff of the Resident Geologist's Office, Sault Ste. Marie, 24 pages and 2 maps.

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Date	Page Revised	Revised by

Date	Page Revised	Revised by

COWIE TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map - 1 map
Exploration Data Map - 1 map
Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	L.A.
2	Assessment Files Research Office, Toronto	Yes	A.F.R.O.
3	ODM General Index; 7 volumes	Yes	L.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	"
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	"
6	ODM Industrial Mineral Reports	No	"
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	"
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	"
9	Newspaper Clippings File	Yes	"
10	GSC Index to Publications	Yes	"
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	No	"
12	OGS Index Maps	Yes	"
13	Source Mineral Deposit Records (O.G.S.) M.D.I.R.	Yes	"
14	Author - Subject Articles File	No	"
15	Miscellaneous Papers: ODM & OGS	No	"
16	ODM Geological Circulars: OGS Study Series	No	"
17	ODM Preliminary Reports: ODM Bulletins	No	"
18	ODM – OGS Open File Reports	Yes	"
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	"
20	OGS Aggregate Resources Inventory Papers	N.A.	"
21	OGS Mineral Potential Maps	Yes	"
22	Algoma Central Railway Maps	Yes	"
23	Algoma Central Railway Files	Yes	"

METALS AND MINERALS REFERENCES LIST

- Δ anh. . . . . Anhydrite
- Δ ank. . . . . Ankerite
- Δ anna . . . . . Annabergite
- Δ ap. . . . . Apatite
- Δ arg . . . . . Argentite
- Δ As . . . . . Arsenic
- Δ asp . . . . . Arsenopyrite
- Δ asb . . . . . Asbestos
- Δ ba. . . . . Barite
- Δ be. . . . . Beryl
- Δ Bi. . . . . Bismuth
- Δ bn . . . . . Bornite
- Δ bran . . . . . Brannerite
- Δ bruc . . . . . Brucite
- Δ Cd . . . . . Cadmium
- Δ calc. . . . . Calcite
- Δ carb . . . . . Carbonate
- Δ cel . . . . . Celestite
- Δ cc. . . . . Chalcocite
- Δ cp. . . . . Chalcopyrite
- Δ ch. . . . . Chert
- Δ clay . . . . . Clay
- Δ Co . . . . . Cobalt
- Δ cob. . . . . Cobaltite
- Δ cb. . . . . Columbite
- Δ Cu . . . . . Copper
- Δ cor . . . . . Corundum
- Δ dol . . . . . Dolomite
- Δ ep. . . . . Epidote
- Δ ery . . . . . Erythrite
- Δ fel . . . . . Feldspar
- Δ fl . . . . . Fluorite (flurospar)
- Δ fu. . . . . Fuchsite
- Δ gn. . . . . Galena
- Δ gt . . . . . Garnet
- Δ goe . . . . . Goethite
- ▲ Au . . . . . Gold
- Δ gf. . . . . Graphite
- Δ gl . . . . . Gravel
- Δ gyp. . . . . Gypsum
- Δ hem . . . . . Hematite
- Δ il . . . . . Ilmenite
- ▲ Fe . . . . . Iron
- Δ IF. . . . . Iron Formation
- Δ jas . . . . . Jasper
- Δ kaol . . . . . Kaolinite (kaolin)
- Δ ky . . . . . Kyanite
- Δ Pb . . . . . Lead
- Δ lim . . . . . Limonite
- Δ Li. . . . . Lithium
- Δ mgst . . . . . Magnesite
- Δ mag . . . . . Magnetite
- Δ mc . . . . . Malachite
- Δ Mn . . . . . Manganese
- Δ mb . . . . . Marble
- Δ mar. . . . . Marcasite
- Δ ma . . . . . Marl
- Δ mi . . . . . Mica
- Δ ml . . . . . Millerite
- Δ mo . . . . . Molybdenite
- Δ Mo . . . . . Molybdenum
- Δ mon . . . . . Monazite
- Δ ne. . . . . Nephelite (nepheline)
- Δ nc. . . . . Niccolite
- Δ Ni. . . . . Nickel
- Δ Nb . . . . . Niobium
- Δ Pd . . . . . Palladium
- Δ peat . . . . . Peat
- Δ pent . . . . . Pentlandite
- Δ Pt. . . . . Platinum
- Δ py . . . . . Pyrite
- Δ pyl . . . . . Pyrochlore
- Δ pyrl . . . . . Pyrolusite
- Δ po . . . . . Pyrrhotite
- Δ q . . . . . Quartz
- Δ qcv . . . . . Quartz carbonate vein
- Δ ra. . . . . Radioactive minerals
- Δ RE . . . . . Rare Earths
- Δ sd. . . . . Sand
- Δ sgl . . . . . Sand and gravel
- Δ ss . . . . . Sandstone
- Δ scap . . . . . Scapolite
- Δ shee . . . . . Scheelite
- Δ serp . . . . . Serpentine
- Δ sh. . . . . Shale
- Δ sid . . . . . Siderite
- Δ si . . . . . Silica
- ▲ Ag . . . . . Silver
- Δ sl . . . . . Slate
- Δ sm . . . . . Smaltite
- Δ sod. . . . . Sodalite
- Δ spec . . . . . Specularite
- Δ sp. . . . . Sphalerite
- Δ spd. . . . . Spodumene
- Δ staur . . . . . Staurolite
- Δ stib. . . . . Stibnite
- Δ st . . . . . Stone
- Δ talc. . . . . Talc
- Δ Te . . . . . Tellurium
- Δ td. . . . . Tetrahedrite
- Δ th. . . . . Thorite
- Δ Th . . . . . Thorium
- Δ thuc . . . . . Thucholite
- Δ ti . . . . . Titanite
- Δ Ti. . . . . Titanium
- Δ tour . . . . . Tourmaline
- Δ trap . . . . . Trap rock
- Δ W. . . . . Tungsten
- Δ uran . . . . . Uraninite
- Δ U . . . . . Uranium
- Δ verm . . . . . Vermiculite
- Δ Y . . . . . Yttrium
- Δ Zn . . . . . Zinc
- Δ zr. . . . . Zircon
- ▲ S . . . . . Sulphides

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record + MDIR	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Alden-Goudreau Mine Regnery Metals Michael-Boyle Property Towagmac Property	Au,Ag	A 0049	MDC 13, p.20-21	-showing No. 54 on ACR map 42C 1 & 8 -showing No. 11 on OGS Map P. 640
B	Alden Range Markes Property Hamilton Occurrence	Fe,S	A 0055	MDC 11, p. 48	-showing No. 38 on ACR map 42C 2 & 7 -showing No. 51 on OGS ,Map P. 184
C	Hamilton Range Occurrence Sweet Lake Iron Range	Fe,S		MDC 11, p. 48-49	-showing No. 50 on OGS Map P. 184 -showing No. 40 on OGS Map P. 640

GDIF FORM NO. 1

4 COWIE TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SAULT STE. MARIE	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	Sampling	Miscellaneous	
1.	Umex Corporation Ltd. (Cowie 0010) (Cowie 0014-A1) Acme Oil & Gas Co. Ltd. (Bird 0011)	75				75				74 66		75	75					75		
2	Algoma Central Railway (Cowie 0011) (Aguonie 0022)	63, 64						61, 63, 64										61	35	
3	Algoma Central Railway Markes, Wm. Jalore Mining Co. Ltd. (Cowie 0012) (Bird 0011)	51		30's		33 51, 58		33 51 52, 55 58										33 51 55, 58		
4	Erie Canadian Mines Ltd. Alden-Goudreau Mines Michael-Boyle Claims (Cowie 0013) Acme Oil & Gas Co. Ltd. (Bird 0011)			33?	33	36 69		36, 37, 38, 69, 71										33, 36, 69		
5	Algoma Central Railway (Cowie 0015)	53																		

GDI FORM NO. 7

COWIE TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SAULT STE. MARIE COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	Sampling	Topographical Survey	
6	Amax Minerals Explor. (Cowie 0016)	81		81	78, 80, 81	78, 80, 81		80, 81, 82	81	81								81	81	
7	Algoma Ore Properties (Abotossaway 0012)	53-54																		
8	Candela Development Co. (Aguonie 0010) (Debassige 0012-A1)							52 67												
9	Canadian Pyrites Ltd. (Corbiere 0015)							30					30							

GDI FORM NO. 1

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
1.	Erie Canadian Mines Ld.	10	1933	?	-80°	8.0	342.0	IF,qv,mag,py, po,ep,qcv,q-tour	
2.	" " "	9	1933	?	-45°	10.0	177.0	qv,IF,cp,po, qcv,tour,py, gn,Au	
3.	" " "	1	1933	74°30'	-45°	3.0	256.0	py,mag,qcv, qv,tour	
"	" " "	5	1933	?	-70°	3.6	395.0	py,cp,po,qv, tour,ep	
"	" " "	6	1933	?	-70°	4.0	96.10	qv	
4	" " "	2	1933	?	-45°	7.0	190.0	qv,py	
5	" " "	7	1933	?	-40°	10.0	138.0	qcv,mag,qv, visible Au, tour,py	
"	" " "	8	1933	?	-45°	7.0	122.0	py,qv,tour,cp	
6	" " "	12	1933	?	-50°	4.0	342.4	py,qv,IF,mag, ep,q-tour	
7	" " "	18	1933	?	-80°	7.6	691.5	qv,py,po,ep, q-tour,IF	
8	" " "	17	1933	?	-75°	5.0	696.0	qv,py,IF,ep, cp,q-tour,qcv, po	

GDIF FORM NO. 3

COMBE TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
9	Erie Canadian Mines L.	4	1933	?	-60°	4.0	142.0	qv,py,lim	
"	" " " "	11	1933	?	-70°	4.0	250.0	qv,mag,py,ep, qcv,q-tour,IF	
10	" " " "	13	1933	?	-57°	4.0	420.0	q-tour,py,qv, cp,po	
11	" " " "	3	1933	?	-60°	5.0	208.0	qv,py,cp,po, tour	
12	" " " "	14	1933	?	-57°	8.4	425.0	qv,py,q-tour	
13	" " " "	15	1933	?	-65°	4.0	333.0	py,qv,tour, cp,po,mag	
14	" " " "	16	1933	?	?	8.0	469.6	py,qv,q-tour, gn	
"	" " " "	19	1933	?	?	25.0	204.0	q-tour,py,qv	
"	" " " "	20	1933	?	?	28.0	28.0		
"	" " " "	21	1933	?	?	8.4	245.0	qv,py	
"	" " " "	22	1933	?	?	?	?		
15	Amax Minerals Explor.	35	1981	180°	-45°	1 m	117 m	IF,qcv,tour, sulphides	Au,Ag
"	" " "	36	1981	180°	-45°	2.11 m	93 m	IF,qv,qcv, tour	Au,Ag
"	" " "	37	1981	180°	-45°	1.0 m	78 m	qv, IF	Au,Ag

GDH FORM NO. 3

COMIE TOWNSHIP 15

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
15	Amax Minerals Explor.	38	1981	180°	-45°	1.57 m	78 m	q	Au
"	" " "	39	1981	180°	-45°	2 m	63 m	qv,IF	Au
"	" " "	40	1981	180°	-45°	.90 m	69 m	qv,hem,IF	Au,Ag
"	" " "	41	1981	180°	-45°	2.45 m	63 m	qcv,tour,IF, sulphides	Au,Ag
16	" " "	28	1980	?	?	?	36 m		Au
"	" " "	34	1981	180°	-45°	2.15 m	156 m	qcv,tour,IF, sulphides	Au,Ag
17	" " "	75	1981	180°	-45°	1.85 m	212 m	qcv,q-tour veins	Au
"	" " "	76	1981	180°	-45°	2.78 m	246 m	q-tour veins, mag,hem	Au
18	" " "	74	1981	180°	-45°	2.54 m	216 m	q-tour-carb, veins,IF	Au
19	" " "	31	1981	180°	-45°	2.24 m	177 m	qcv,tour, sulphides,IF	Au,Ag
"	" " "	42	1981	180°	-45°	1 m	162 m	qcv,mag,IF, sulphides, tour	Au,Ag
20	" " "	50	1981	180°	-45°	2.34 m	168 m	q-tour-sulph-ide veins,IF	Au,Ag
"	" " "	51	1981	180°	-45°	1.73 m	210 m	q-tour-sulph-ide veins	Au,Ag

GDIF FORM NO. 3

COWIE TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
21	Amax Minerals Explor.	52	1981	180°	-45°	2.11 m	165 m	q-tour-sulph-ide veins,mag	Au,Ag
"	" " "	53	1981	180°	-45°	2.35 m	147 m	q-tour-sulph-ide veins,mag IF	Au,Ag
"	" " "	57	1981	180°	-45°	1.60 m	156 m	q-tour-sulph-ide veins,mag	Au,Ag
"	" " "	60	1981	180°	-45°	1.04 m	172 m	q-tour veins, sulphides,mag IF	Au,Ag
"	" " "	61	1981	180°	-45°	1.80 m	183 m	q-tour sulph-ide veins,IF, mag	Au,Ag
22	" " "	62	1981	180°	-45°	2.12 m	180.0	q-tour veins, IF, mag	Au,Ag
"	" " "	65	1981	180°	-45°	1.38 m	147.0	q-tour-sulph-ide veins,IF	Au
23	" " "	64	1981	180°	-45°	2.6u m	171.0 m	q-tour-sulph-ide veins,IF	Au,Ag
"	" " "	66	1981	180°	-45°	2.45 m	135 m	IF,mag,q-tour sulphide,vein	Au
"	" " "	67	1981	180°	-45°	1.28 m	177 m	qcv,q-tour veins,IF, sulphides	Au
"	" " "	68	1981	180°	-45°	1.85 m	138 m	IF,mag,q	Au

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
23	Amax Minerals Expl.	70	1981	180°	-45°	3.35 m	87 m	mag,q-tour veins, IF	Au
24	" " "	71	1981	180°	-45°	6.6 m	111 m	q-tour veins, qcv,mag	Au
"	" " "	72	1981	180°	-45°	1.45 m	129 m	q	Au
25	" " "	73	1981	180°	-45°	1.9 m	165 m	qcv	
26	" " "	20	1980	?	?	?	41 m		Au
"	" " "	21	1980	?	?	?	45 m		Au
"	" " "	22	1980	?	?	?	52 m		Au
"	" " "	23	1980	?	?	?	52 m		Au
27	" " "	17	1980	?	?	?	?		Au
"	" " "	18	1980	?	?	?	43 m		Au
"	" " "	19	1980	?	?	?	21 m		
"	" " "	19A	1980	?	?	?	44 m		Au
28	" " "	13	1980	?	?	?	105 m		Au
"	" " "	14	1980	?	?	?	48 m		Au
"	" " "	15	1980	?	?	?	49 m		Au
"	" " "	16	1980	?	?	?	57 m		Au

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
28	Amax Minerals Expl.	79	1981	180°	-55°	.87 m	27 m	q-tour-sulph-ide veins	Au
"	" " "	509	1981	180°	-70°	1. m	25 m		
"	" " "	510	1981	180°	-61.5°	1.23 m	22 m	q-tour-sulph-ide veins	
29	" " "	24	1980	?	?	?	107 m		Au
"	" " "	25	1980	?	?	?	?		Au
"	" " "	58	1981	180°	-45°	2.45 m	141.0	q-tour-sulph-ide veins, mag, IF	Au,Ag
"	" " "	59	1981	180°	-45°	1.49	105.0	q-tour-sulp-ide veins, IF	Au,Ag
"	" " "	63	1981	180°	-45°	2.61 m	159 m	IF,q-tour-sulphide vein mag	Au,Ag,q, tour,S
"	" " "	69	1981	180°	-45°	1.5 m	75 m	q-tour sulph-ide veins	Au
30	" " "	7	1980	?	-61°	?	33 m		Au
"	" " "	8	1980	?	-60°	?	42 m		Au
"	" " "	9	1980	?	-61°	?	43 m		Au

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
30	Amax Minerals Ex.	10	1980	?	-60°	?	?		Au
"	" " "	11	1980	?	-60°	?	40 m		Au
"	" " "	12	1980	?	-64°	?	45 m		Au
"	" " "	46	1981	180°	-45°	.95 m	69 m	q-tour-sulphide veins,IF	Au,Ag
"	" " "	56	1981	180°	-45°	2.72 m	87 m	q-tour-sulphide veins, IF	Au,Ag
"	" " "	505	1981	180°	-70°	0	27 m	q-tour-sulphide veins	
"	" " "	506	1981	180°	-61.5°	1.67 m	28 m	q-tour-sulphide veins	
"	" " "	507	1981	180°	-53°	1.78 m	25 m	q-tour-sulphide veins	
"	" " "	508	1981	180°	-45°	1.9 m	31 m	q-tour-sulphide veins,IF	
"	" " "	511	1981	180°	-70°	1.32 m	32 m	q-carb-tour sulphide vein	
"	" " "	512	1981	180°	-61.5°	1.25 m	32 m	q,IF	
31	" " "	26	1980	?	?	?	35 m		Au
"	" " "	43	1981	180°	-45°	1.75 m	147 m	qv,IF,mag, tour,sulphides	Au,Ag

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
31	Amax Minerals Expl.	44	1981	180°	-45°	2 m	144 m	q-tour-sulphide veins	Au,Ag
"	" " "	48	1981	180°	-45°	2.27 m	84 m	q-tour-sulphide veins,IF	Au,Ag
"	" " "	49	1981	180°	-45°	1.17 m	117 m	q-tour-sulphide veins,IF	Au,Ag
"	" " "	54	1981	180°	-45°	1.71 m	122.8 m	q-tour-sulphide veins,mag,IF	Au,Ag
"	" " "	55	1981	180°	-45°	1.58 m	84 m	q-tour-sulphide veins,IF	Au,Ag
32	" " "	1	1978	?	?	?	36 m		Au
"	" " "	2	1978	?	?	?	31 m		Au
"	" " "	3	1978	?	?	?	29 m		Au
"	" " "	4	1978	?	?	?	32 m		Au
"	" " "	45	1981	180°	-45°	1.5 m	109.5 m	IF,q-tour-sulphide veins	Au,Ag
"	" " "	78	1981	180°	-65°	1 m	27 m	q-tour veins	Au
"	" " "	501	1981	180°	-70°	o	27 m	q-tour-sulphide veins	
"	" " "	502	1981	180°	-61.5°	0	27 m	q-tour-sulphide veins	

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
32	Amax Minerals Expl.	503	1981	180°	-53.5°	o m	25 m	q-tour-sulphide veins	
"	" " "	504	1981	180°	-45°	1.13 m	28 m	q-tour-sulphide veins	
33	" " "	5	1978	?	?	?	34 m		Au
"	" " "	6	1978	?	?	?	31 m		Au
"	" " "	27	1980	?	?	?	?		Au
"	" " "	29	1981	180°	-45°	1.9 m	38 m	q	
"	" " "	30	1981	180°	-45°	1.54 m	108 m	qv,q-tour-veins	Au,Ag
"	" " "	32	1981	180°	-45°	2.05 m	72 m	qcv,tour,IF, sulphides	Au,Ag
"	" " "	33	1981	180°	-45°	2.22 m	93 m	qcv,tour,IF, sulphides	Au,Ag
"	" " "	47	1981	180°	-50°	2.15 m	78	q-tour veins, IF	Au,Ag
34	" " "	77	1981	180°	-45°	1.8 m	45 m	q	Au

GDIF FORM NO. 3

COMIE TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1.	-by ? -for Umex Corp. Ltd. (see map in file Cowie 0014-A1) -1974 and -for Acme Oil & Gas Co.Ltd. (see map Bird 0011-22 in file Bird 0011) -1966	-airborne electromagnetic survey	?	N - S	1/8 mi.
6	-by Aerodat Limited -for Amax Minerals Expl. -1981	a-Aerodat Duel Frequency inphase-quadrature electromagnetic instrument b-AM-104 proton procession magnet-ometer	150 ft.	N - S	150 m.

GDIF FORM NO. 1

COMIE TOWNSHIP

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
1.	Lake Sediment	Zn,Cu,Pb,Ni,Co,Ag,Mn,As, Mo,Fe,U,F	OGS - GSC 1979	OGS OFR 5267

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Sault Ste. Marie

Alden - Goudreau Mines Ltd.

Amax Exploration Inc.

ODM GENERAL INDEX SEARCH

Words searched: Cowie Township
Township 27, Range 25
Manitowik Lake
Pivot Lake
Forge Lake
Forge Cr.
Wallace Lake
Michael-Boyle Gold Claims (Alden-Goudreau)
Towagmac Gold Claims
Towagmac Exploration Co.Ltd.

*MRC - Mineral (Resources) Deposit Circulars

Index Volume	Listing:	Report Volume	Part	Page
I	no listings			
II	no listings			
III	Township 27, r.25, Alg.			
	Pyrite mg.	40	4	50
	Michael-Boyle Gold Claims Tp. 27, r.25, Alg.			
	Geology and workings	44	8	19
	Operations (1928)	38	1	149
	(1934)	44	1	131
	Towagmac Exploration Co.,Ltd.			
	Capital; officers	38	1	149
	Licensed	39	1	60
	Towagmac Gold Claims, Tp.27,r.25			
	Mineralization	40	4	36
IV	Alden-Goudreau Gold Mine, Tp.27, r.25,Alg.			
	Mill capacity	59	1	25
	Operations (1940)	50	1	117
	(1941)	51	1	183
	(1942)	52	1	178
	(1943)	53	1	154
	Production (1940) facing	50	1A	8
	(1941) facing	51	1	16
	(1942) facing	52	1	10
	(1943) facing	53	1	10
	(1945) facing	54	1	10
	copper facing	52	1	10
	statistics	59	1	Table V
	Alden-Goudreau Mines, Ltd.			
	Agreement with W. Regnery	50	1	117
		53	1	154
V	Alden-Goudreau Gold Mine, Tp. 27,r.25, Alg.			
	Mill capacity (1951)	61	1	27
	Production statistics	61	1	Table V
VI	no listings			
VII	no listings			

continued ...

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

* MRC - Mineral (Resources) Deposit Circulars

Index Volume	Listing:	Report Volume	Part	Page
VIII	Tp. 27, Range 25, Algoma District			
	gold/silver	MRC 13		20-21
	iron	MRC 11		48-49
	pyrite	MRC 05		29
	Alden-Goudreau Mine, Tp. 27,Rg.25 Algoma District			
	mining property,report on	MRC 13		20-21
	Alden Range Occurrence, Tp. 27 Range 25, Algoma District			
	mining property, report on	MRC 11		48

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Milne, V.G., et al	1972	Manitouwadge-Wawa Sheet	OGS Map 2220	1" to 4 mi.
Algoma Central Railway	1964	Maniowik Lake-Lochalsh	Map 42C 1 & 8	1" to 1 mi.
Algoma Central Railway	1964	Wawa-Goudreau	Map 42C 2 & 7	1" to 1 mi.
ODM - GSC	1963	Aeromagnetic Maps: Wawa Manitowik Lake	Maps: 2192G 2206G	1" to 1 mi.
Springer, Janet	1977	Ontario Mineral Potential, White River Sheet, Districts of Algoma and Thunder Bay	OGS prelim. Map P. 1519	1:250,000
Gartner, J.F., McQuay, D.F.	1979	Goudreau Area; Northern Ontario Geology Terrain Study	NOEGTS Study 73 with Map 5097	14 pages 1:100,000
OGS-GSC	1979	Regional Lake Sediment and Water Geochemical Reconnaissance Data Eastern Shore Lake Superior	OGS Open File Rpt. 5267 and 16 maps	83 pages 1:250,000
Goodwin, A.M.	1963	Michipicoten Area, District of Algoma	ODM Prelim. Map P. 184	1" to 2 mi.
Leahy, E.J., Rupert, R.J. Giblin, P.E. and Giguere, J.F.	1971	Wawa Sheet	ODM Prelim. Map P. 640	1" to 2 mi.

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Collins, W.H., Quirke, T.T. and Thomson, Ellis	1926	Michipicoten Iron Ranges	GSC Mem. 147, see map 2050	P. 62,94 155-57 1" to 1 mi.

GDIF FORM NO.9

NOTES AND ADDENDA

—Cowie Township was formerly known as Township 27,Range 25.

—The mining rights to this township are controlled by the Algoma Central Railway, 289 Bay Street, Sault Ste. Marie; they should be contacted before planning any work in this area.

COMIE TOWNSHIP

MAPS NOT

FILMED

CARTES

OMISES